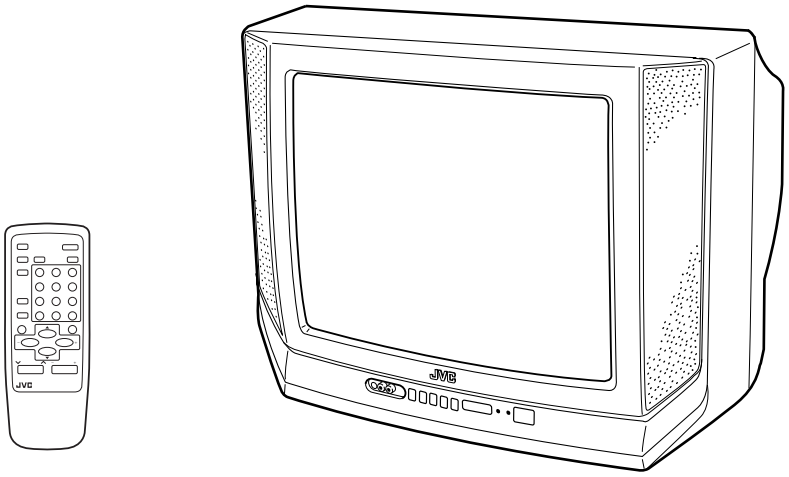
JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

AV-14FT



■ APPLICABLE MODELS

This standard circuit diagram is applicable to the following models.
However, there will be differences between this model and the following applicable models. For the differences, please refer to "PARTS DIFFERENCE TABLE" in the service manual of the following applicable models.

Basic Model (this Model)	Applicable Models	
AV-14FT (Service Manual: No. 56077, Sep. 2000)	AV-14FTG	(Service Manual: No. 56078, Sep. 2000)
	AV-14FTG(-A)	(Service Manual: No. 56079, Sep. 2000)
	AV-14F4EE	(Service Manual: No. 56080, Sep. 2000)
	AV-14F4(BK)	(Service Manual: No. 56081, Sep. 2000)
	AV-14F4(NS)	(Service Manual: No. 56082, Sep. 2000)

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No. 56077
Sep. 2000

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1) Input signal : Colour bar signal
(2) Setting positions of each knob/button and variable resistor : Original setting position when shipped
(3) Internal resistance of tester : DC 20kΩ/V
(4) Oscilloscope sweeping time : H → 20μS/div
: V → 5mS/div
: Others → Sweeping time is specified.
(5) Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

● Resistance value
No unit : [Ω]
K : [KΩ]
M : [MΩ]

● Rated allowable power
No indication : 1/4 [W]
Others : As specified

● Type
No indication : Carbon resistor
OMR : Oxide metal film resistor
MFR : Metal film resistor
MPR : Metal plate resistor
UNFR : Non-flammable resistor
FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

● Capacitance value
1 or higher : [pF]
less than 1 : [μF]

● Withstand voltage
No indication : DC50 [V]
AC indicated : AC withstand voltage [V]
Others : DC withstand voltage [V]

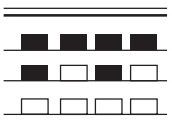
* Electrolytic Capacitors
47/50 [Example]: Capacitance value [μF]/withstand voltage [V]

● Type
No indication : Ceramic capacitor
MY : Mylar capacitor
MM : Metalized mylar capacitor
PP : Polypropylene capacitor
MPP : Metalized polypropylene capacitor
MF : Metalized film capacitor
TF : Thin film capacitor
BP : Bipolar electrolytic capacitor
TAN : Tantalum capacitor

(3) Coils

No unit : [μH]
Others : As specified

(4) Power Supply

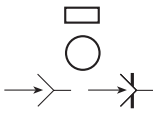

: B1
: 12V
: 9V
: 5V

* Respective voltage values are indicated.

(5) Test point

: Test point
: Only test point display

(6) Connecting method


: Connector
: Wrapping or soldering
: Receptacle

(7) Ground symbol

⊥ : LIVE side ground
⏚ : ISOLATED (NEUTRAL) side ground
⏚ : EARTH ground
▽ : DIGITAL ground

5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED (NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED (NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
(2) Do not short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED (NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

● **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

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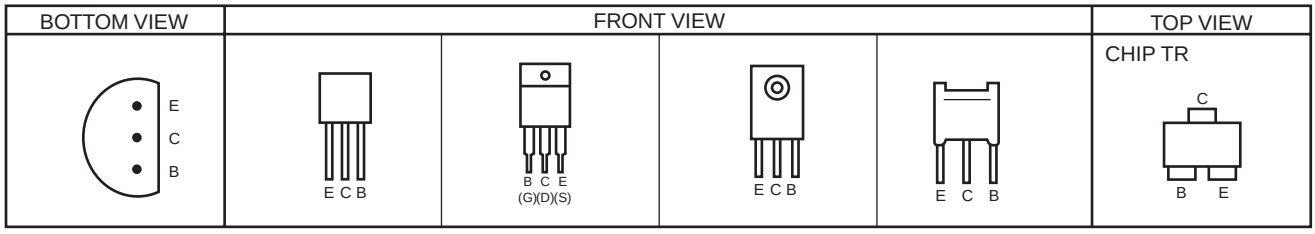
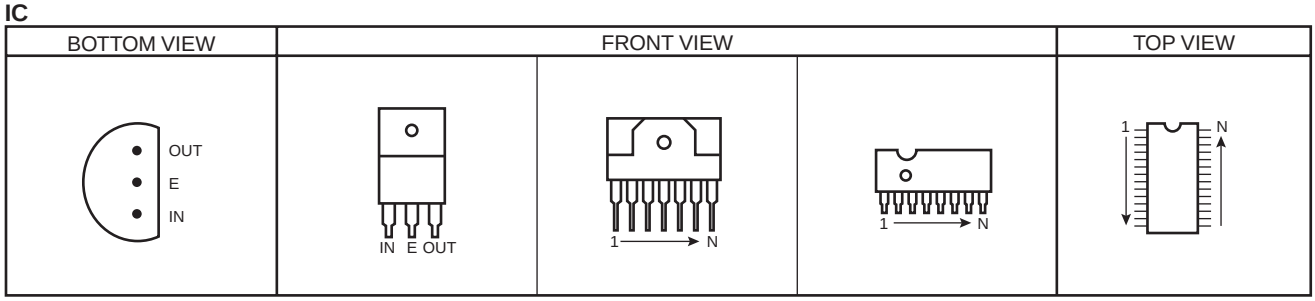
SEMICONDUCTOR SHAPES

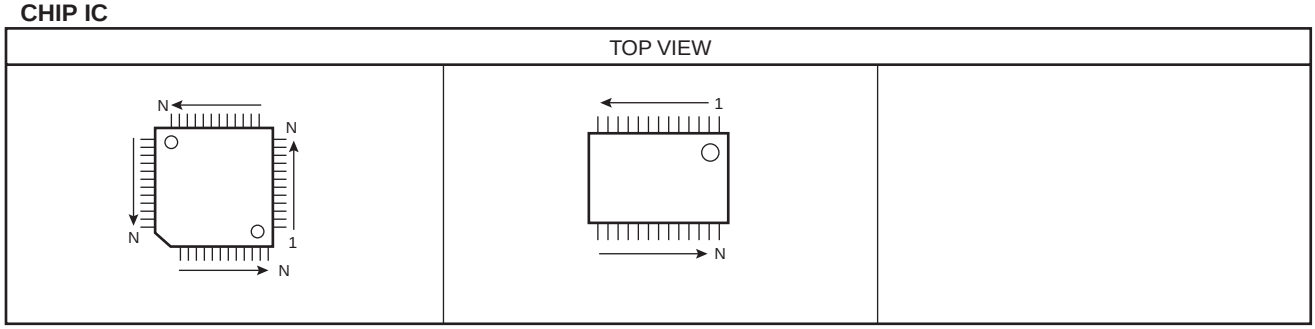
TRANSISTOR



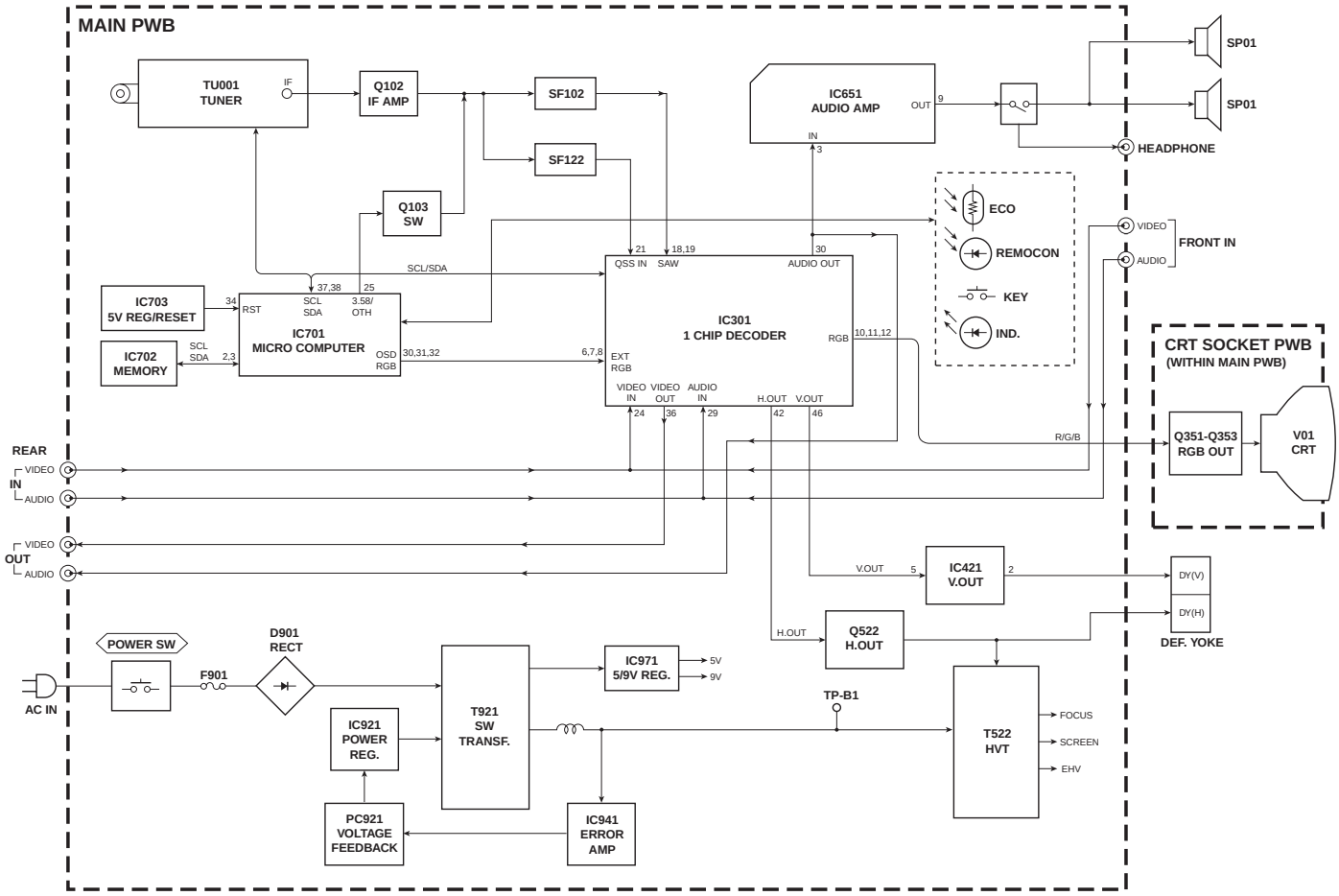
IC



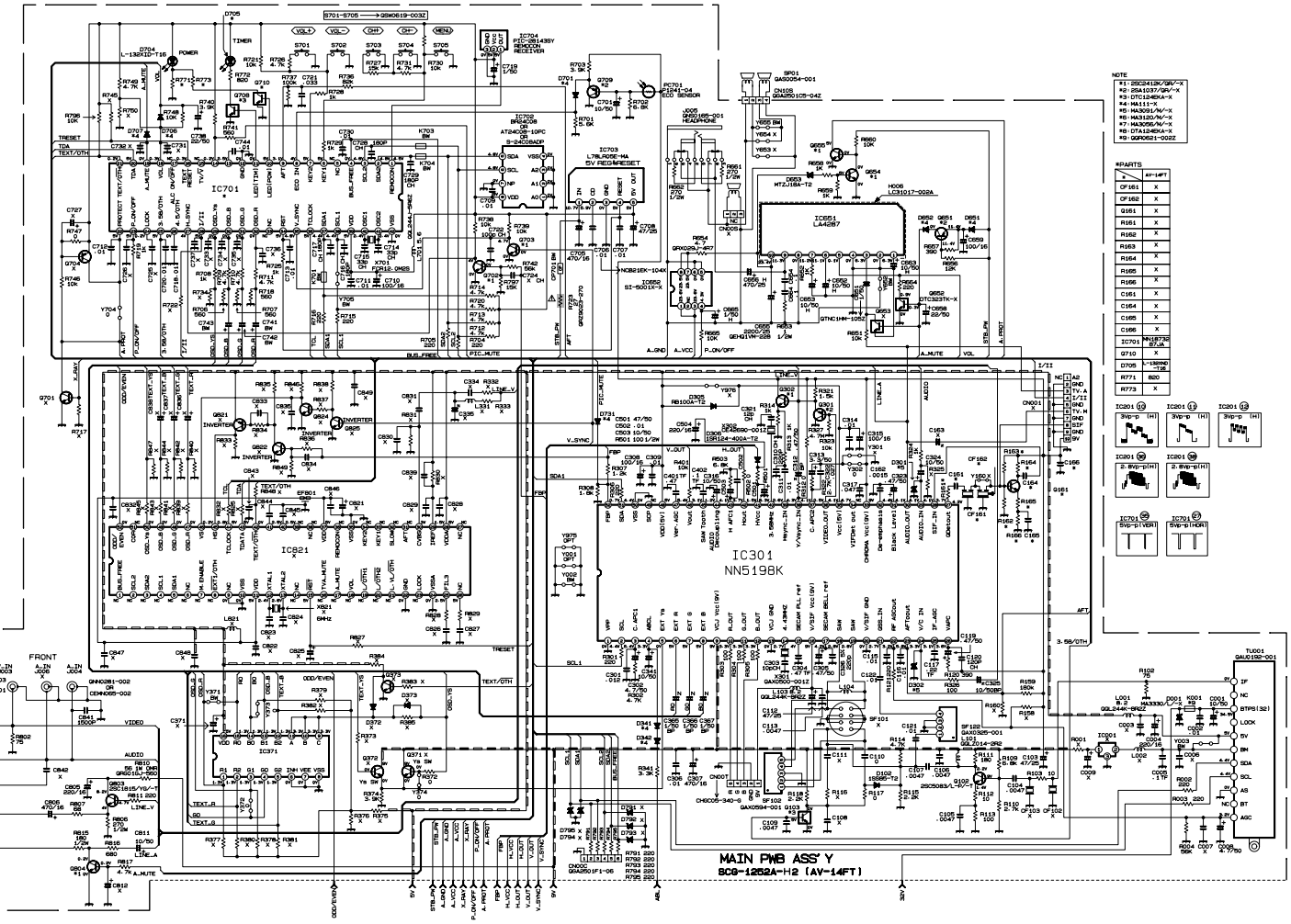
CHIP IC



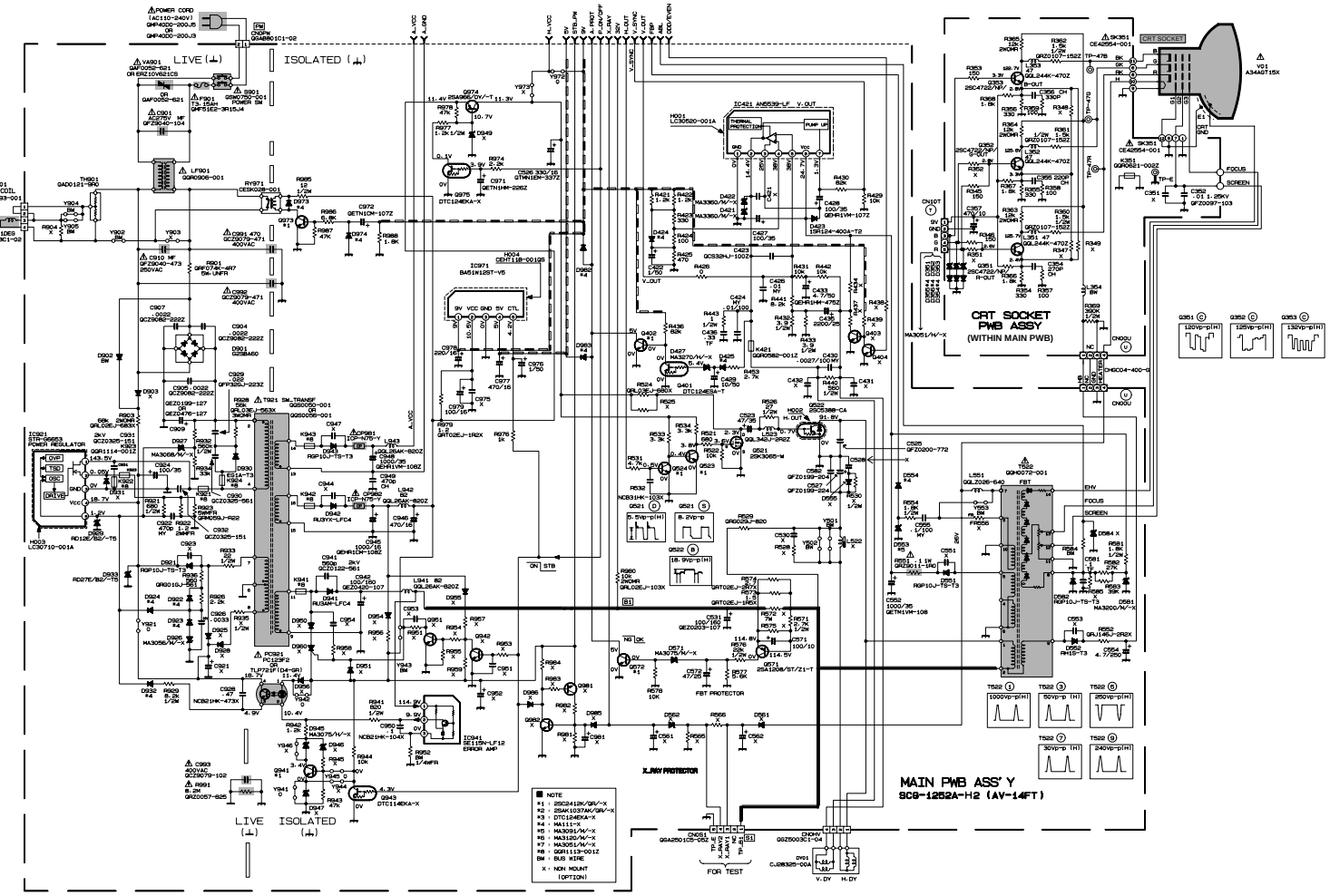
OCK DIAGRAM


MAIN PWB
TU001 TUNER
IF
Q102 IF AMP
SF102
SF122
Q103 SW
IC651 AUDIO AMP
OUT
IN
9
3
SP01
SP01
HEADPHONE
ECO
REMOCON
KEY
IND.
VIDEO
AUDIO
FRONT IN
SCL/SDA
21
18,19
30
QSS IN
SAW
AUDIO OUT
IC703 5V REG/RESET
34
RST
37,38
SCL SDA
25
3.58/ OTH
IC701 MICRO COMPUTER
IC702 MEMORY
SCL SDA
2,3
OSD RGB
30,31,32
6,7,8
EXT RGB
IC301 1 CHIP DECODER
RGB
10,11,12
VIDEO IN
VIDEO OUT
AUDIO IN
H.OUT
V.OUT
24
36
29
42
46
CRT SOCKET PWB
(WITHIN MAIN PWB)
Q351-Q353 RGB OUT
V01 CRT
R/G/B
REAR
IN
VIDEO
AUDIO
OUT
VIDEO
AUDIO
V.OUT
5
IC421 V.OUT
2
DY(V)
DY(H)
DEF. YOKE
H.OUT
Q522 H.OUT
POWER SW
D901 RECT
F901
AC IN
IC971 5/9V REG.
5V
9V
TP-B1
IC921 POWER REG.
T921 SW TRANSF.
T522 HVT
FOCUS
SCREEN
EHV
PC921 VOLTAGE FEEDBACK
IC941 ERROR AMP

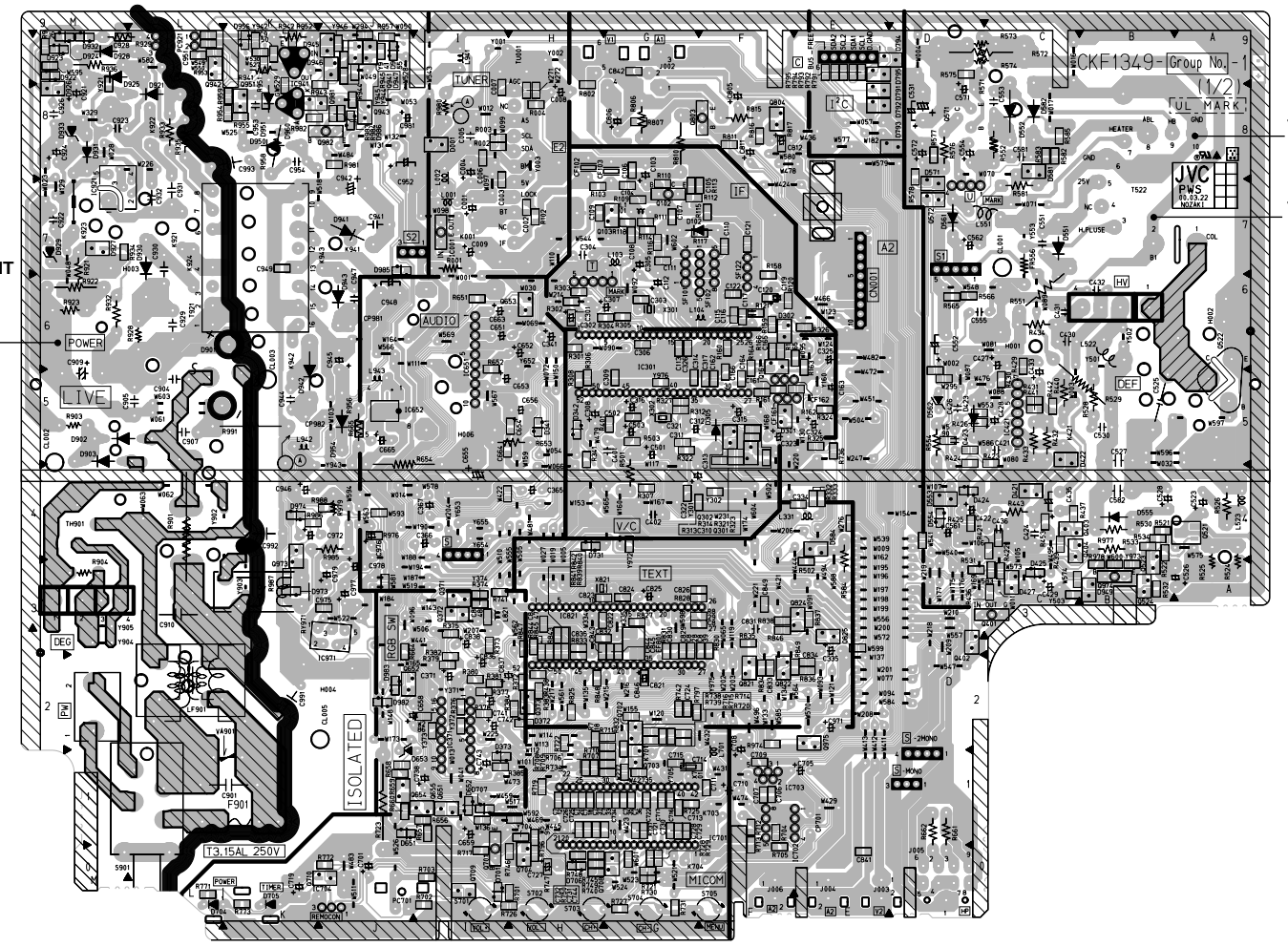
T DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM (1/2)*



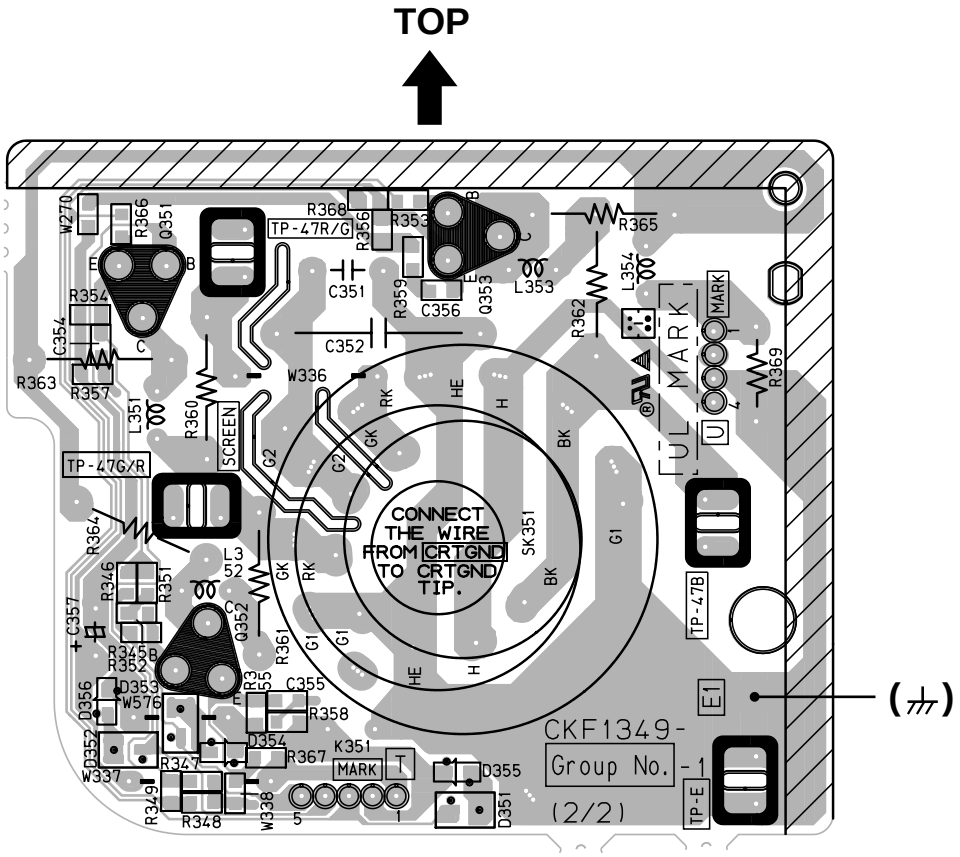
N PWB CIRCUIT DIAGRAM (2/2)



N DIAGRAMS *MAIN PWB PATTERN*



CRT SOCKET PWB PATTERN



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